

Message

From: Nadine Kotlarz [nkotlar@ncsu.edu]
Sent: 4/3/2018 8:24:47 PM
To: Strynar, Mark [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5a9910d5b38e471497bd875fd329a20a-Strynar, Mark]
Subject: Re: Sample preparation for measurement of GenX in serum
Attachments: Poothong_SPE_UPLC_PFAS_serum_plasma_wholeblood_AnCh2017.pdf

Thank you.

Can you take a look at the method in the attached paper? They precipitate proteins without the addition of acetonitrile. What is the addition of methanol for? They do a long centrifugation for 40 min. Maybe that's enough to remove the proteins without the ACN.

Our current plan is to test GenX recovery without and with ACN protein crash. Should we test a longer centrifugation step like in this paper with and without ACN?

In the case of the ACN method, we would still do 1:10 ACN:DI before loading onto the cartridge.

Nadine

On Tue, Apr 3, 2018 at 4:09 PM, Strynar, Mark <Strynar.Mark@epa.gov> wrote:

That is correct.

M

From: Nadine Kotlarz [mailto:nkotlar@ncsu.edu]
Sent: Tuesday, April 03, 2018 3:53 PM

To: Strynar, Mark <Strynar.Mark@epa.gov>
Subject: Re: Sample preparation for measurement of GenX in serum

Mark,

The internal standard we add to the serum will just be mass labeled GenX. We do not have internal standards for PFMOAA, Nafion byproducts 1 or 2, is that correct?

Thanks,

Nadine

On Tue, Apr 3, 2018 at 2:19 PM, Nadine Kotlarz <nkotlar@ncsu.edu> wrote:

Can you take a look at these calculations for the serum method?

On Tue, Apr 3, 2018 at 1:51 PM, Nadine Kotlarz <nkotlar@ncsu.edu> wrote:

Yes. Thank you!

I'll come over in 10 min.

On Tue, Apr 3, 2018 at 1:49 PM, Strynar, Mark <Strynar.Mark@epa.gov> wrote:

Sure. Did you get the message Jane found your phone?

Mark

From: Nadine Kotlarz [<mailto:nkotlar@ncsu.edu>]

Sent: Tuesday, April 03, 2018 1:42 PM

To: Strynar, Mark <Strynar.Mark@epa.gov>

Subject: Re: Sample preparation for measurement of GenX in serum

Thanks. Can I stop by your office today to speak about the method briefly? I have a few more questions.

Nadine

On Tue, Apr 3, 2018 at 10:42 AM, Strynar, Mark <Strynar.Mark@epa.gov> wrote:

I sent some comments just a moment ago. I had some suggestions but no problems.

Mark

From: Nadine Kotlarz [mailto:nkotlar@ncsu.edu]

Sent: Tuesday, April 03, 2018 8:32 AM

To: Strynar, Mark <Strynar.Mark@epa.gov>

Subject: Re: Sample preparation for measurement of GenX in serum

Hi Mark,

I'll be working on re-extracting the Wilmington water sample with high PFOS this morning but then can focus on the serum method this afternoon. Could you take a look at the outline I sent you and let me know if you see any problems?

Nadine

On Thu, Mar 29, 2018 at 1:14 PM, Nadine Kotlarz <nkotlar@ncsu.edu> wrote:

Hi Mark,

Can you please take a look at the steps I've outlined based on our discussion?

Nadine